

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	595	(175/1,56).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/02/16 17:03
L2	627	(175/171).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/02/16 17:03
L3	366	(173/90).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/02/16 17:03
L4	243	(173/114).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/02/16 17:03
L5	239	(173/136).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/02/16 17:03
L6	547	(173/138).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/02/16 17:03
L7	76	(173/142).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/02/16 17:03
L8	669	(91/234).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/02/16 17:03
L9	3170	L1 L2 L3 L4 L5 L6 L7 L8	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/16 17:03

## EAST Search History

L10	24	L9 and (@pd>"20060926")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/16 17:04
L11	9	US-3375884-\$.DID. OR US-3379263-\$.DID. OR US-4527637-\$.DID. OR US-4836299-\$.DID. OR US-5222425-\$.DID. OR US-5392865-\$.DID. OR US-5417290-\$.DID. OR US-5549170-\$.DID. OR US-5562169-\$.DID.	US-PGPUB; USPAT	OR	ON	2007/02/16 17:04
L12	7	(drill and pressure and piston and fluid and chamber and reciprocal). clm.	US-PGPUB	OR	ON	2007/02/16 17:05
S1	6	((("5417290") or ("3375884") or ("4836299") or ("4527637") or ("5549170") or ("5562169"))).PN.	US-PGPUB; USPAT	OR	OFF	2006/09/28 19:25
S2	2	"200183933"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/09/28 19:08
S3	2	((("5222425") or ("5392865"))).PN.	US-PGPUB; USPAT	OR	OFF	2006/09/28 19:25
S4	344	drill and sonic and piston and pressure	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/09/28 19:28
S5	0	("2006/0162961").URPN.	USPAT	OR	ON	2006/09/28 20:55
S6	374	("175"/\$.ccls. "173"/\$.ccls.) and (vibrat\$3 with piston) and pressure	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/09/28 20:56
S7	9	("1043529"   "2887989"   "3608650").PN. OR ("3736843"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/29 14:25
S8	2	("2763060").URPN.	USPAT	OR	ON	2006/09/29 14:29
S9	593	(175/1,56).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/09/29 14:53

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S10	618	(175/171).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/09/29 14:54
S11	357	(173/90).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/09/29 14:59
S12	240	(173/114).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/09/29 14:59
S13	239	(173/136).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/09/29 16:46
S14	546	(173/138).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/09/29 14:59
S15	76	(173/142).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/09/29 14:59
S16	669	(91/234).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/09/29 15:01
S17	3146	S9 S10 S11 S12 S13 S14 S15 S16	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/09/29 15:01
S18	240	S17 and vibrat\$3 and piston and pressure	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/02/16 17:02
S19	374	("175"/\$.ccls. "173"/\$.ccls.) and (vibrat\$3 with piston) and pressure	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/09/29 15:03

## EAST Search History

S20	135	S18 not S19	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/09/29 15:03
S21	9	("4022108"   "4230019"   "4659294"   "4784228"   "4817737"   "5038668"   "5134989").PN. OR ("5884713").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/29 16:44
S22	17	("0542498"   "1119198"   "1654833"   "2392061"   "3736843"   "4550784"   "4632190"   "4658901"   "4984640").PN. OR ("5806608"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/29 16:49
S23	11	("0608953"   "0884152"   "1245603"   "1940143"   "2763060"   "3754396").PN. OR ("4945815"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/29 16:51
S24	4	("2763060"   "2797664").PN. OR ("3680442").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/29 16:51
S25	34	("0786050"   "1205140"   "1245603"   "1403583"   "1428630"   "1447694"   "1504976"   "2561577"   "2907304"   "3205787"   "3232178"   "3511137"   "3600046"   "3659504"   "3726508"   "3779672"   "4191093"   "4550646").PN. OR ("5209564"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/29 16:52
S26	8	("2861548").URPN.	USPAT	OR	ON	2006/09/29 16:54
S27	3	("6617760").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/09/29 18:32
S28	3	(sonic with drill\$3) and ballast	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/09/29 18:33
S29	560	(sonic with drill\$3) and weight	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/09/29 18:34

## EAST Search History

S30	326	(sonic adj drill\$3) and weight	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/09/29 18:46
S31	2	(drill\$3 near head) with ballast	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/09/29 18:47
S32	608	drill\$3 with ballast	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/09/29 18:47